

Fig.1

TEAM 1	TEAM 2	EVENT
Player 1	Player A	2-point
Player 2	Player B	3-point
Player 3	Player C	Foul
Player 4	Player D	Free Throw
Player 5	Player E	_____
_____	_____	

Fig.2

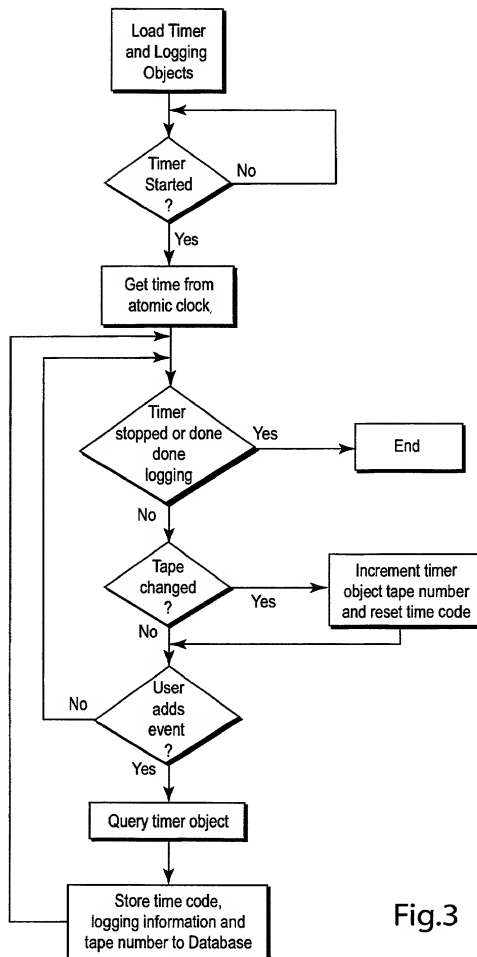
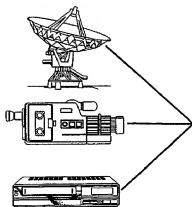


Fig.3

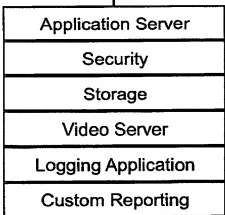
Capture Bridge



Video Encoding

3rd Party: Optibase

Media Pump



Application Server

3rd Party: iPlanet

Security

3rd Party

Storage

3rd Party: EMC or Sun

Video Server

Logging Application

Custom Reporting

3rd Party: iNETSoft

Network



Logger 1



Viewer

...



Browser



Logger 2

Fig.4



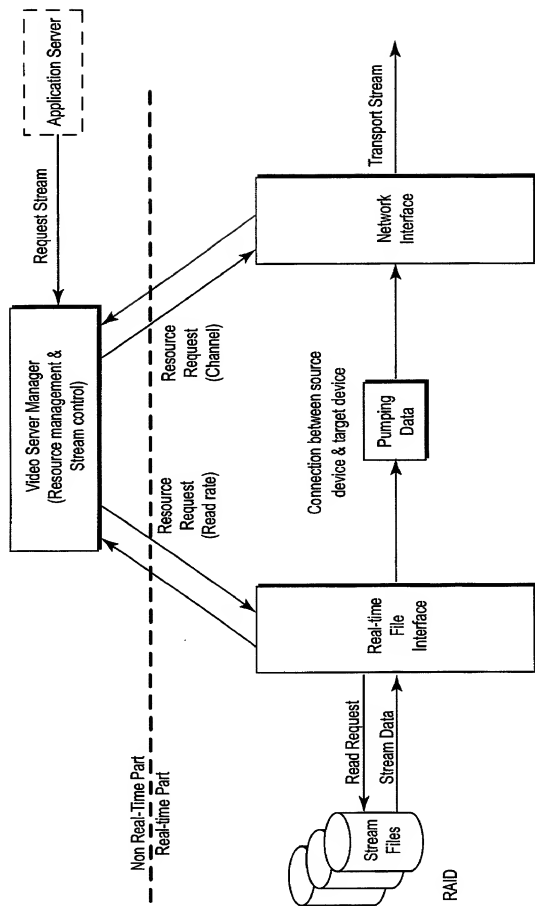


Fig.6 The video Server Architecture

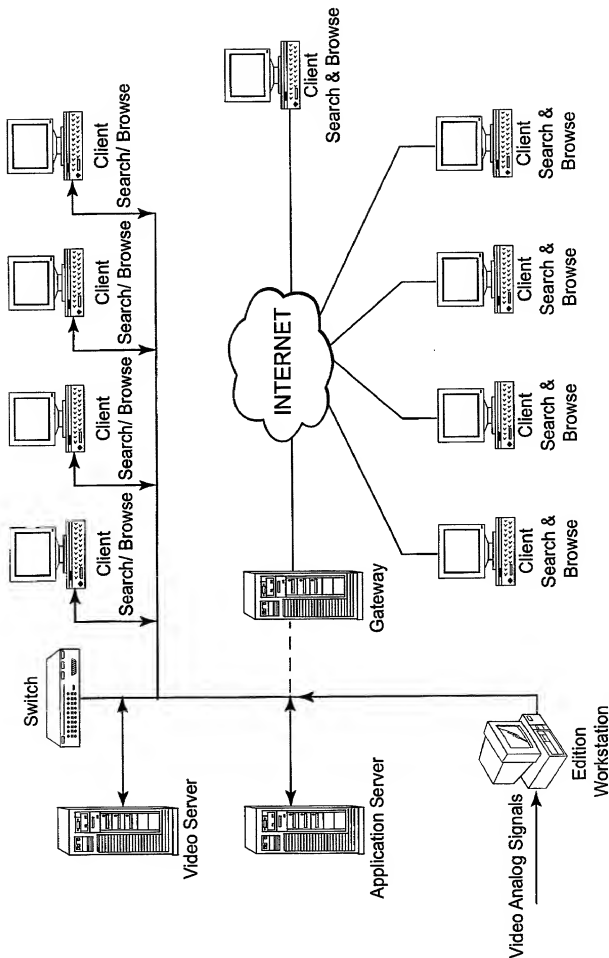


Fig.7a The video content management system architecture

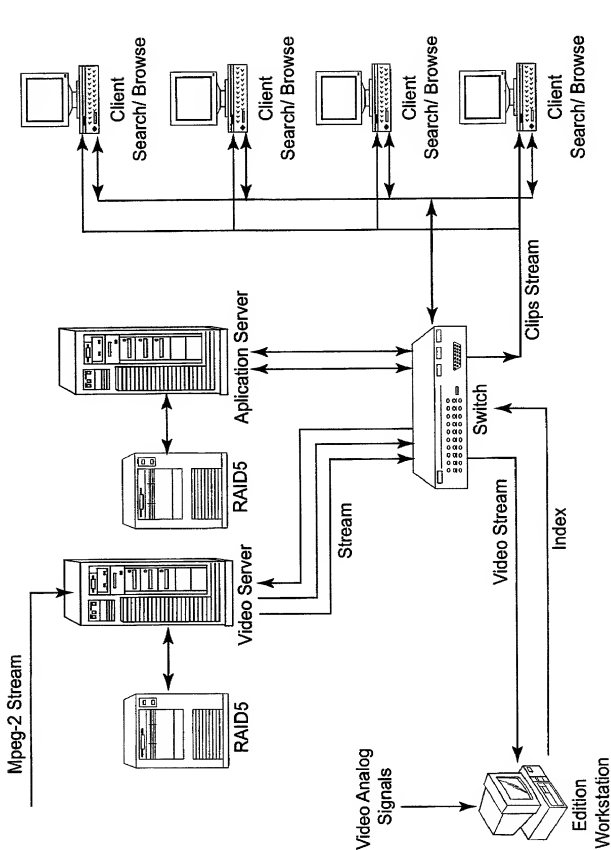


Fig.7b The signals diagram of Video Content Management System

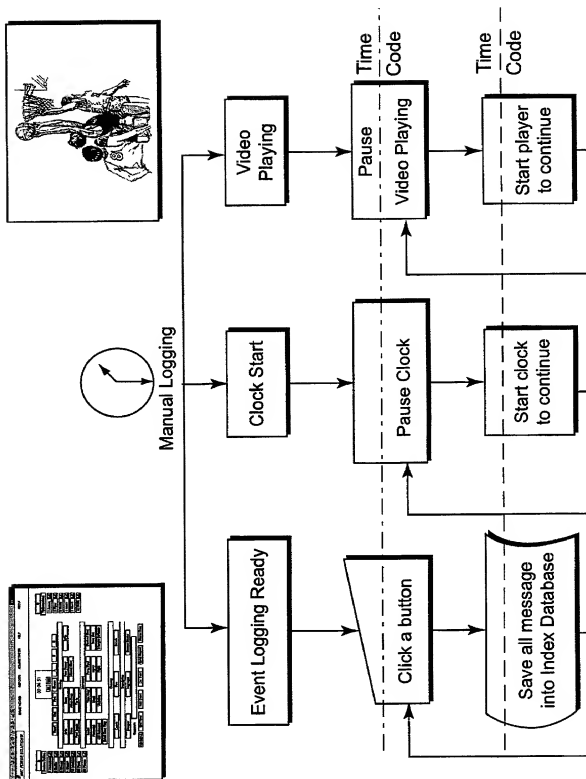


Fig.8a Manual Logger Flowchart

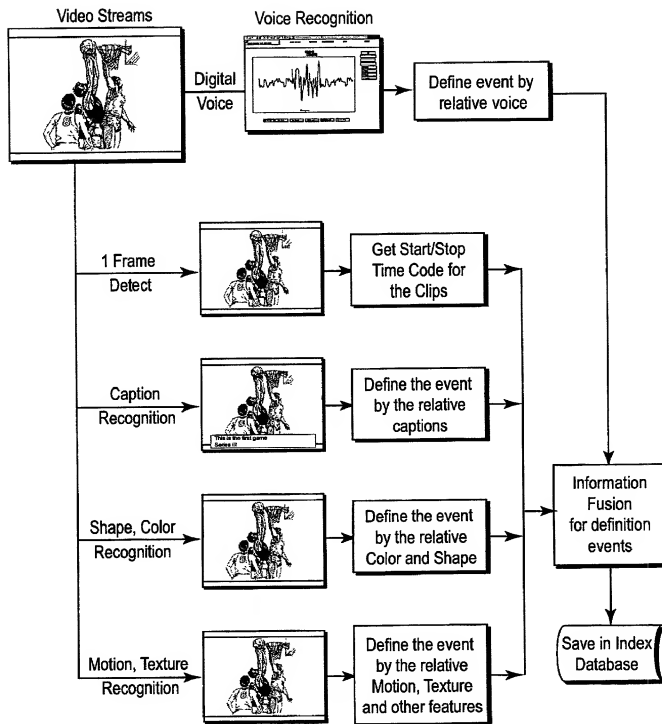


Fig.8b Automatic Logger Flowchart

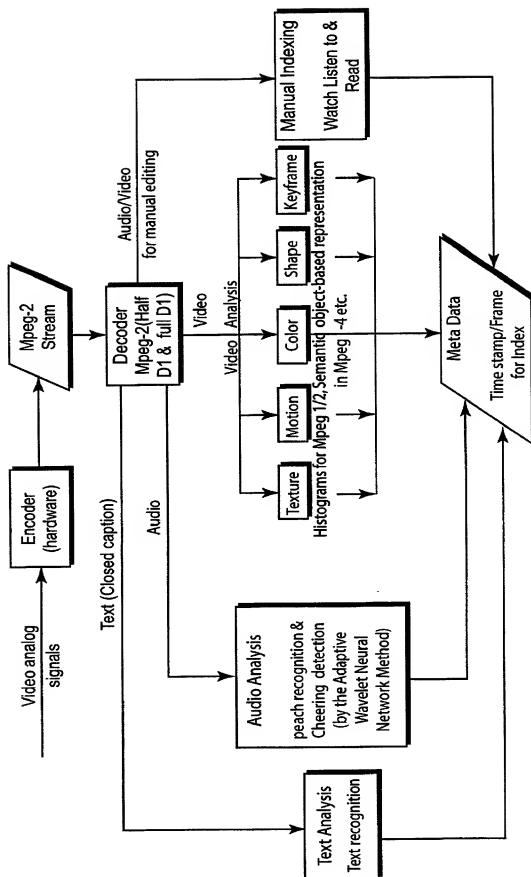
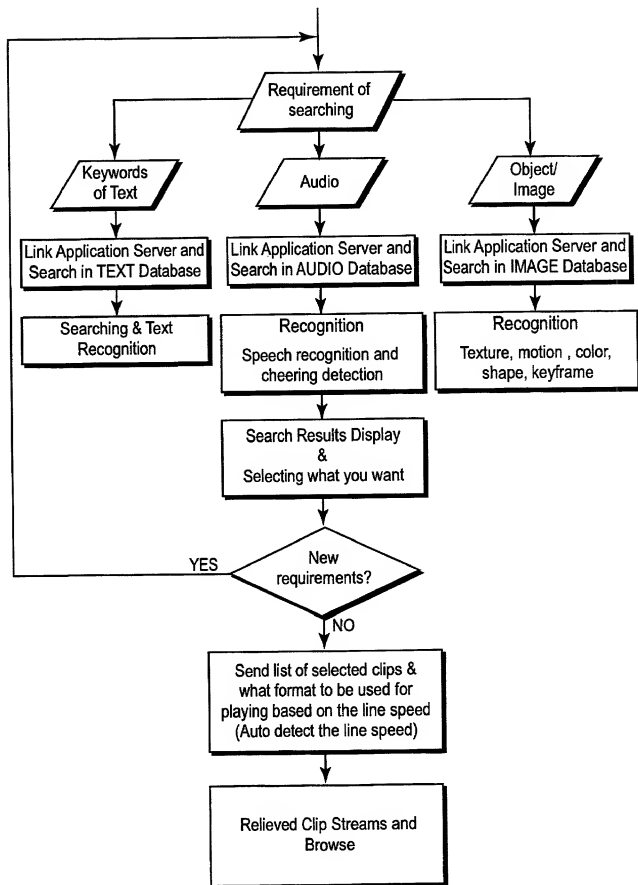


Fig.8c Video Indexing in the Edition Workstation (Manual Logger)

**Fig.8d** Search and Browse in the Clients

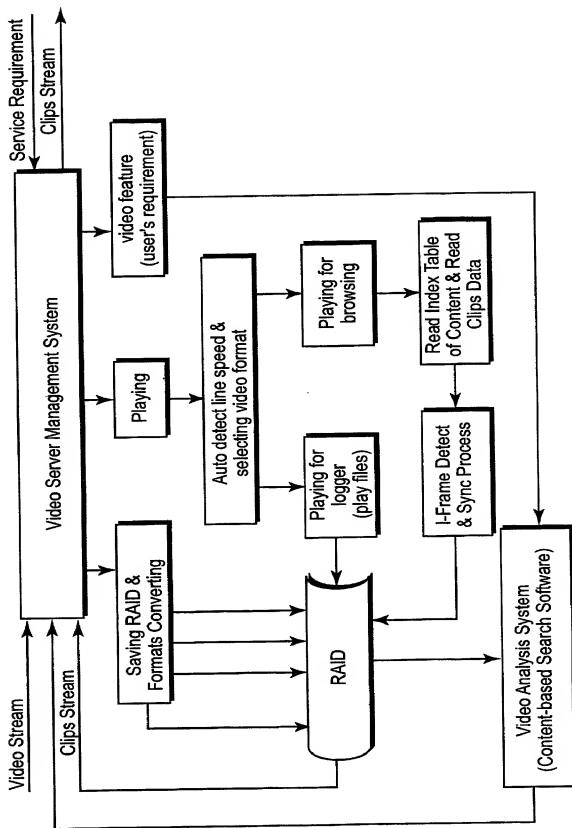


Fig.8e Video Server Flow Diagram

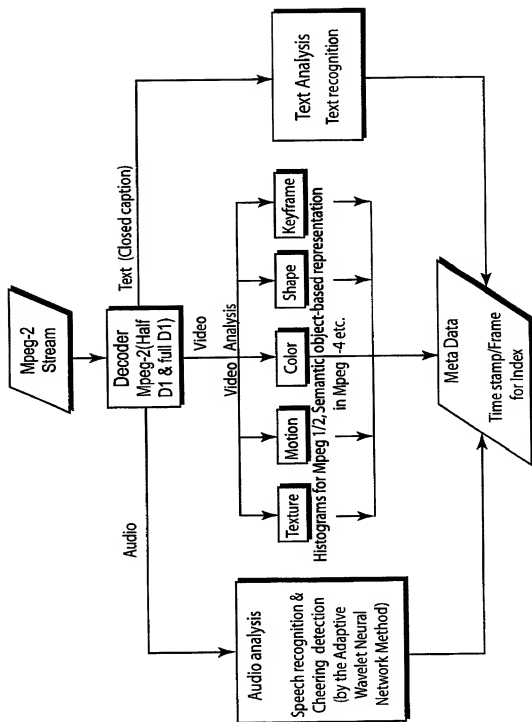


Fig.8f Video Analysis Subsystem Flow Diagram

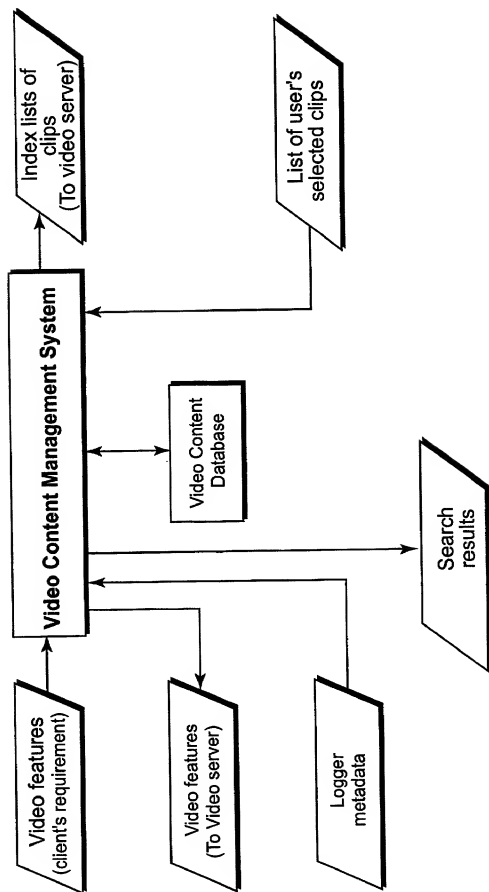


Fig.8g Application Server Flow Diagram

Path	Filename	Start Time-code	Stop Time-code	Stream Format
------	----------	-----------------	----------------	---------------

Fig.9 Video Frame Index Format

Path	Filename	Start Time-code	Stop Time-code	Stream Format
------	----------	-----------------	----------------	---------------

Video Clip

Date	Time	Place	Team 1	Member List 1	Member List 2	.	.	Camera
------	------	-------	--------	---------------	---------------	---	---	--------

Define of Event

Event

Feature for automatic logger

Voice	Caption	Shape	Color	Motion	Texture	Others
-------	---------	-------	-------	--------	---------	--------

Fig.10 The Relationship between the Video Index, Features and Event Database.

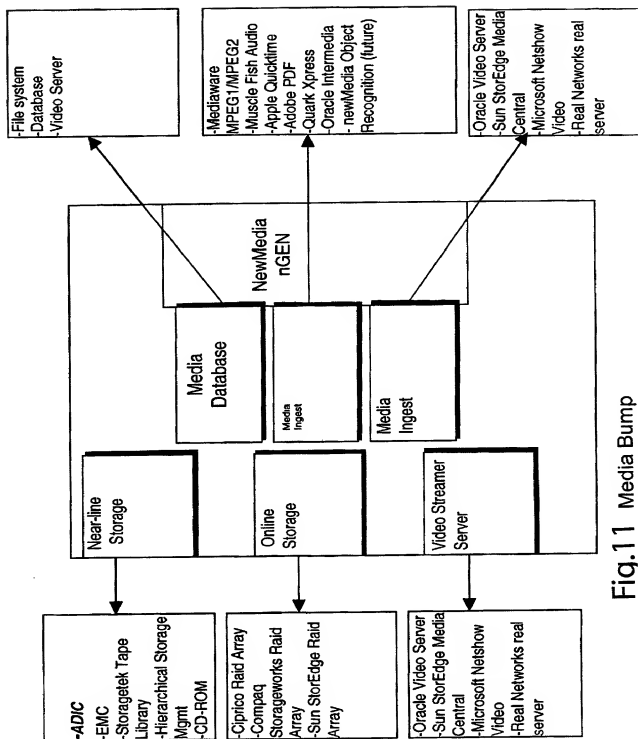


Fig.11 Media Bump

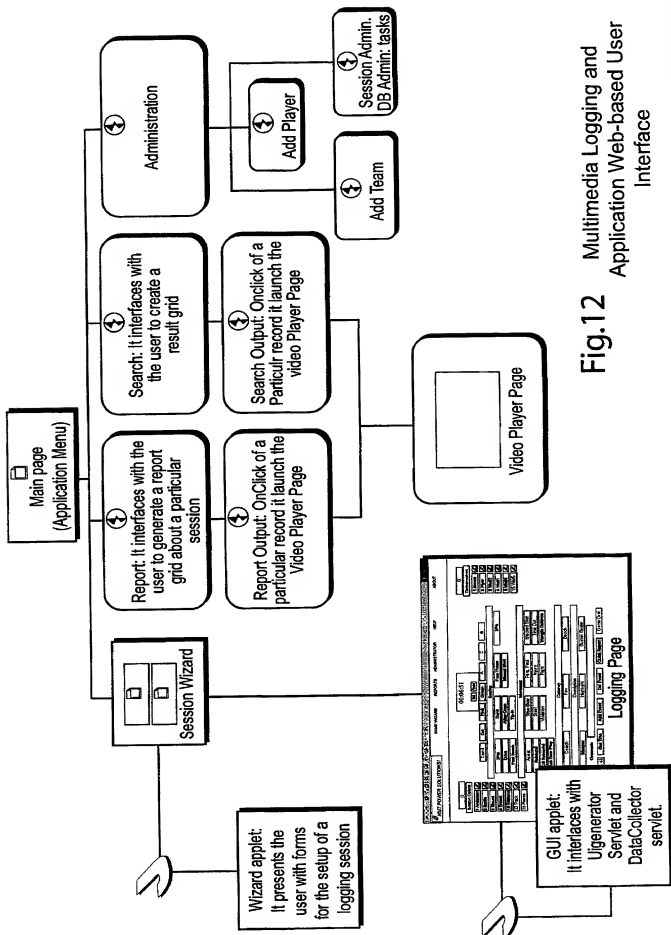


Fig.12 Multimedia Logging and Application Web-based User Interface

Database Table

GroupName	NumberOfElems	Xpos	Ypos	bckground
NMT	15	300px	250px	Red
ComNet	2	500px	250px	

Fig.13

CustID	Cust. Name	ElmType	Dbclick	Click	GroupNam e	Xpos	Ypos
1	Charles Smith	Button	List	Select	NMT	0	0
2	Alphonso Hamilton	Button	List	Select	NMT	1	0
3	Rafael Cortina	Button	List	Select	NMT	0	1
4	Rovi	Button	List	ExSelec t	ComNet	0	0
5	Cliff	Button	List	ExSelec t	ComNet	1	0

Fig.14

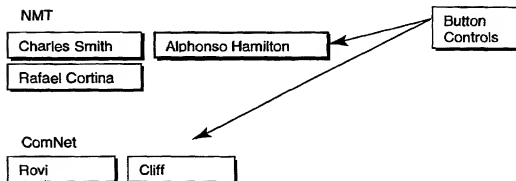


Fig.15

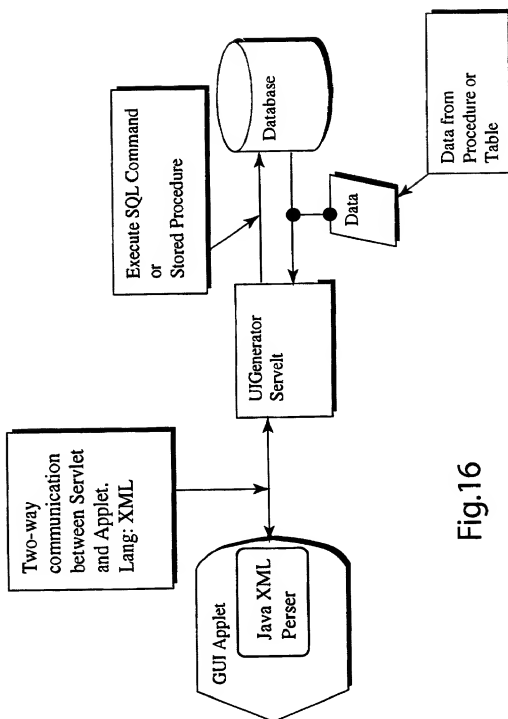


Fig.16

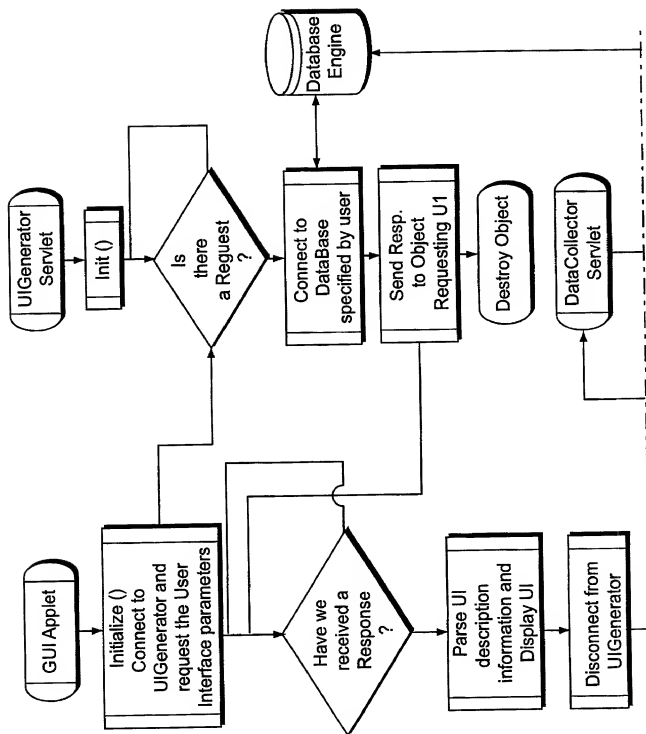


Fig.17a

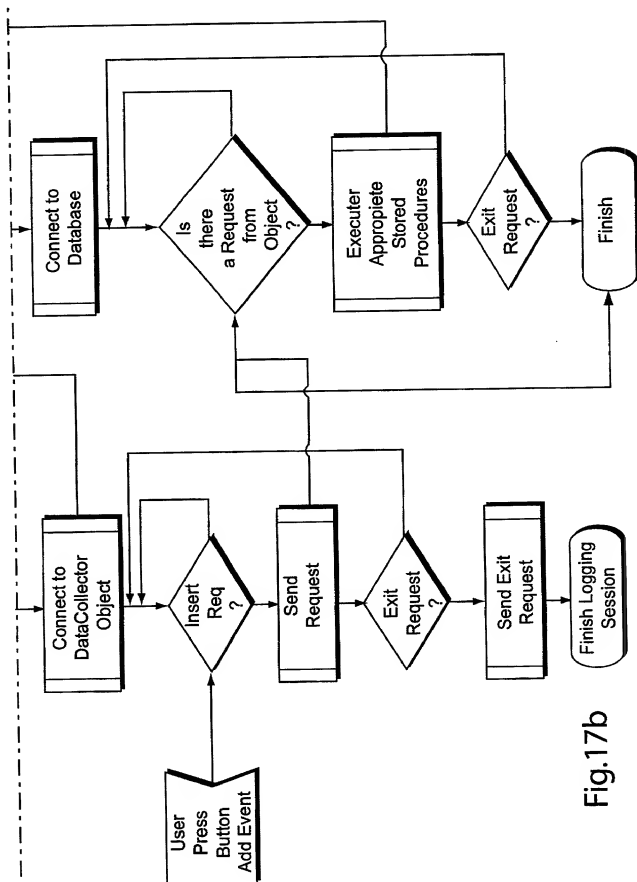


Fig.17b



Fig.18

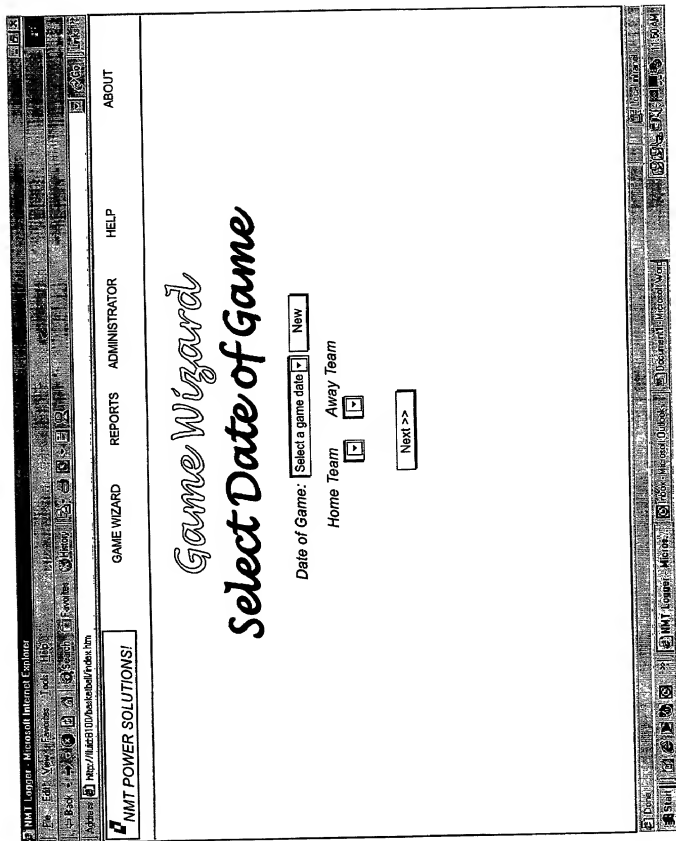


Fig.19



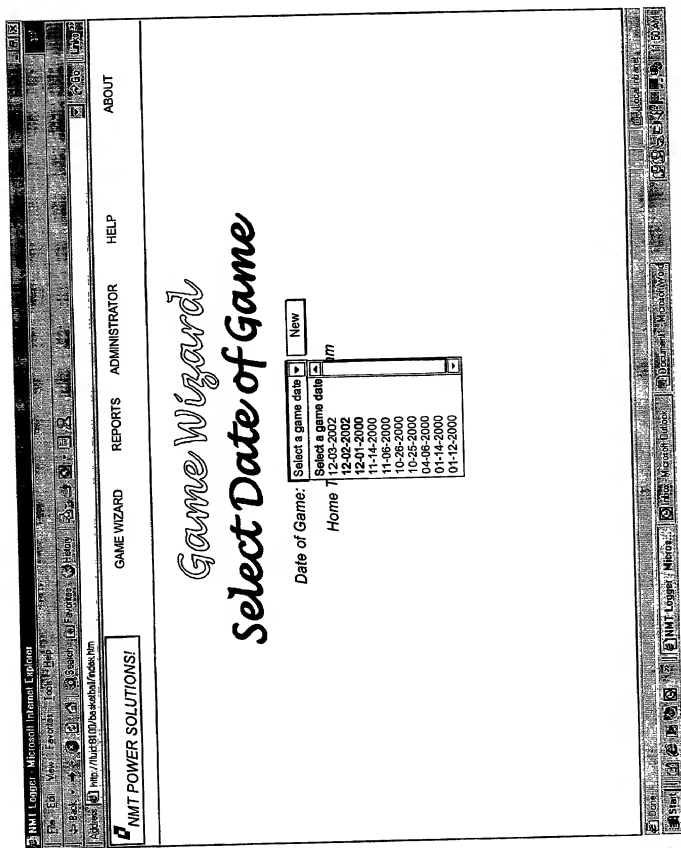


Fig.21

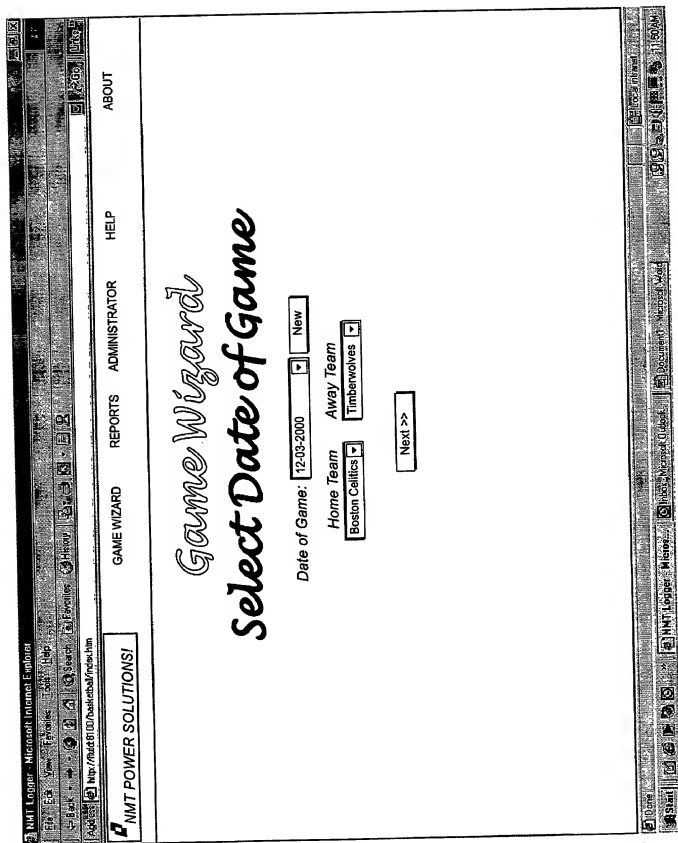


Fig.22

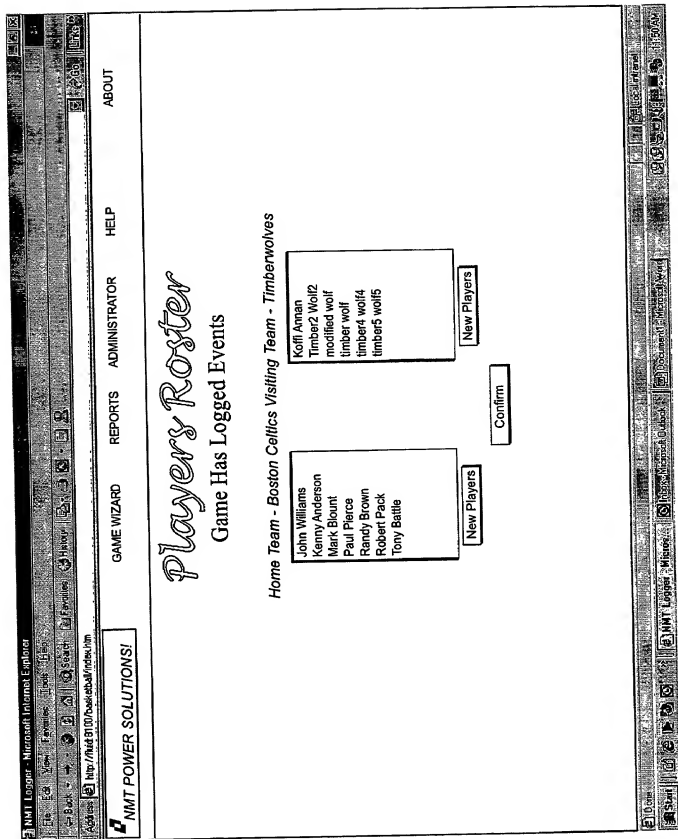


Fig.23

100260-80090867

Internet Explorer - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://nmt.com/00baseball/index.htm

Back Forward Stop Search Favorites History

Game Has Logged Events

Players Roster

Game Administrator - Microsoft Internet Explorer

Game WIZARD REPORTS ADMINISTRATOR HELP ABOUT

Home Team - Boston Celtics

Player Kenny Williams
Team Boston Celtics

First Name
Last Name
Player Number
Position
Height (XX)
Weight (XXX)
URL

New Player

John Williams
Kenny Anderson
Mark Blount
Paul Pierce
Randy Brown
Robert Pack
Tony Battle

New Players

Delete Save Close

Search Name

Co

NMT POWER SOLUTIONS!

Start Stop Print

Internet Explorer - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://nmt.com/00baseball/index.htm

Back Forward Stop Search Favorites History

Fig.24

NMT POWER SOLUTIONS!										GAME WIZARD		REPORTS		ADMINISTRATOR		HELP		ABOUT																																									
<div> <div>0</div> <div> <div>Timberwolves</div> <div>1 Annan</div> <div>2 Poyer</div> <div>3 Wolf2</div> <div>4 Wolf1</div> <div>5 Wolf4</div> <div>15 Wolf5</div> </div> </div>										<div>00:05:41</div> <div> <div>Set</div> <div>Pause</div> </div> <div> <div>Green</div> <div>A</div> <div>C</div> <div>B</div> </div>										<div>Scoring</div> <div> <div>2Pts</div> <div>Drive</div> <div>Fast Break</div> </div> <div> <div>Dunk</div> <div>Alley-Oop</div> <div>Tip-In</div> </div> <div> <div>Free Throw</div> <div>Missed Shot</div> </div> <div>3Pts</div>										<div>Movement</div> <div> <div>Assist</div> <div>Rebound</div> <div>Off Rebound</div> <div>Back Door Play</div> </div> <div> <div>Time Over</div> <div>Steal</div> <div>Violation</div> </div> <div> <div>Pers. Foul</div> <div>Injury</div> <div>Fight</div> </div> <div> <div>Blocked Shot</div> <div>Time Out</div> <div>Triangle Defence</div> </div>										<div>Cutaway</div> <div> <div>Coach</div> <div>Fan</div> <div>Bench</div> </div>										<div>Description</div> <div> <div>Blooper</div> <div>Highlight</div> <div>Buzzer Beater</div> </div> <div> <div>Comments</div> <div> <div>Get Time</div> <div>Add Event</div> <div>Del Event</div> <div>Quick Report</div> <div>Game Over</div> </div> </div>									

Fig.25

NMT POWER SOLUTIONS!

GAME WIZARD
REPORTS
ADMINISTRATOR
HELP
ABOUT

0

Timberwolves

1 Annan

2 Plyer

3 Wolf2

4 Wolf1

5 Wolf4

15 Wolf5

00:06:51

Set

Pause

Green

A

C

B

Scoring

2Pts

Drive

Fast Break

Dunk

Alley-Oop

Tip-In

Free Throw

Missed Shot

3Pts

Movement

Assist

Rebound

Off Rebound

Back Door Play

Time Over

Steal

Violation

Pers. Foul

Injury

Fight

Blocked Shot

Time Out

Triangle Defence

Cutaway

Coach

Fan

Bench

Description

Blooper

Highlight

Buzzer Beater

Comments

00:06:48

Get Time

Add Event

Del Event

Quick Report

Game Over

0

Boston Celtics

1 Anderson

2 Battle

3 Blount

4 Brown

19 Williams

22 Pack

23 Pierce

Fig.26

NMT POWER SOLUTIONS! **GAME WIZARD** **REPORTS** **ADMINISTRATOR** **HELP** **ABOUT**

00:08:23

Scoring

Cam1 Cat Pink Green A C B

2Pts Dunk Free Throw 3Pts

Drive Alley-Oop Missed Shot

Fast Break Tip-In

Assist

Rebound

Off Rebound

Back Door Play

Blocked Shot

Time Out

Triangle Defence

Coach Fan Bench

Description

Buzzer Beater

Comments

Get Time Add Event Del Event Quick Report Game Over

00:06:48

0

Boston Celtics

1 Anderson

2 Battle

3 Blount

4 Brown

19 Williams

22 Pack

23 Pierce

0

Timberwolves

1 Amman

2 Plyer

3 Wolf2

4 Wolf3

5 Wolf4

15 Wolf5

Add event - 19 Williams - 2 Pts?

OK Cancel

Fig.27

Quick Report

Time	Boston Celtics	H Events	H PTS	V PTS	V Events	Timberwolves	Comments	can	cal	Pink	Green	A	C	B
00:00:00	Kenny Anderson	Violation	0	0				0	0	0	0	0	0	0
00:00:00	Paul Pierce	Rebound	0	0			Pierce Rebound...	0	0	0	0	0	0	0
00:00:00	Paul Pierce						Blooper.	0	0	0	0	0	0	0
00:00:00	Paul Pierce						Get the time code	0	0	0	0	0	0	0
00:02:00							BC back door play	0	0	0	0	0	0	0
00:02:30			0	0	Bench		Bench, The Bench, The Bench!!!! @#%\$%^&*() +	0	0	0	4	0	0	0
00:02:41			0	0			Fan	0	0	0	0	0	0	0
00:03:18	John Williams	Bench	0	0			Bench	0	0	0	0	0	0	0
00:03:31			0	0			Coach	0	0	0	0	0	0	0
00:03:32	Robert Park	Coach	0	0			Coach	0	0	0	0	0	0	0
00:04:05			0	0			Coach	0	0	0	0	0	0	0
00:06:18	John Williams	2 Pts	2	0			Highlight.	0	2	3	4	0	0	0

CLOSE

Fig.28

NMT POWER SOLUTIONS **GAME WIZARD** **REPORTS** **ADMINISTRATOR** **HELP** **ABOUT**

00 **11** **26** **OK** **Cancel** **Warning: Applet Window**

2 **Boston Celtics**

1 Anderson **2 Battle** **3 Blount** **4 Brown** **19 Williams** **22 Pack** **23 Pierce**

0 **Timberwolves** **1 Annan** **2 Plyer** **3 Wolf2** **4 Wolf1** **5 Wolf4** **15 Wolf5**

00:11:26 **Sat** **Start**

Scoring

Cam1 **Cam** **Pink** **Green** **A** **C** **B**

Dunk **Free Throw** **3Pts**

Alley-Oop **Missed Shot**

Tip-In

2Pts **Drive** **Fast Break**

Movement

Assist **Time Over** **Pers. Foul** **Blocked Shot**

Rebound **Steal** **Injury** **Time Out**

Off Rebound **Violation** **Fight** **Triangle Defence**

Back Door Play

Cutaway

Coach **Fan** **Bench**

Description

Blooper **Highlight** **Buzzer Beater**

Comments

Get Time **Add Event** **Del Event** **Quick Report** **Game Over**

Fig.29

100260-80090860

800-555-XXXX

HOME

ABOUT

HELP

ADMINISTRATOR

REPORTS

GAME WIZARD

NMT POWER SOLUTIONS!

Search by

Date

Date

Game

Player

Team

Search content

Decending

SEARCH

Reports

Fig.30

T00260'80090860

NMT POWER SOLUTIONS!

GAME WIZARD REPORTS ADMINISTRATOR HELP ABOUT


Search by

Players List

PLAYER	TEAM
Alan Houston	New York Knicks
Alonso Mouring	Miami Heat
Blue Edwards	Miami Heat
Calbert Cheaney	Denver Nuggets
Charlie Ward	New York Knicks
Chris Carr	Chicago Bulls
Chris Childs	New York Knicks
Chris Dondley	New York Knicks
Clarance Weatherpoon	Miami Heat
Cory Alexander	Denver Nuggets
Dan Maricle	Miami Heat
Don McClintock	Denver Nuggets
David Wingate	New York Knicks
Dante Causwell	Miami Heat
Eric Williams	Miami Heat
Evon Fritchmeyer	New Jersey Nets
George McCloud	Denver Nuggets
Georophe Muretan	New Jersey Nets
Jamal Mashburn	Miami Heat

Fig.31

T00260'80090860


NMT POWER SOLUTIONS!

GAME WIZARD REPORTS ADMINISTRATOR HELP ABOUT

Search by

Reports

Games List

Player :Allan Houston

GAME	Game Date	TEAM	Time	EVENT	COMMENTS
1222002	12-02-2002	New York Knicks	00:04:10		missed shot...triangle offense.....
1222002	12-02-2002	New York Knicks	00:05:29	Turn Over	Turn Over 1213233.....
11256650	11-06-2000	New York Knicks	00:23:47	3 Pts	
11256650	11-06-2000	New York Knicks	00:35:18	Dmc	
23	10-26-2000	New York Knicks	13:03:41	2 Pts	
23	10-26-2000	New York Knicks	13:04:40	Time Out	
23	10-26-2000	New York Knicks	13:08:39	Free Throw	
23	10-26-2000	New York Knicks	13:08:50	Free Throw	
01142000	01-14-2000	New York Knicks	00:00:10	Turn Over	

Fig.32

SPORTS - Microsoft Internet Explorer
 http://hud.bridgeway.com/pt/ptmain.htm

GAME WIZARD REPORTS ADMINISTRATOR HELP ABOUT

NMT POWER SOLUTIONS!

Search by Search content Ascending

Reports

Games List

Team : New York Knicks

Game Date	GAME
12-02-2002	1222002
11-14-2000	13
11-06-2000	11062000
11-06-2000	11256650
10-26-2000	23
10-25-2000	21
10-25-2000	22
04-06-2000	254550056
01-14-2000	01142000

Fig.33

09/20/2013 09:00:00

Sports - Microsoft Internet Explorer

Address http://nmt8100/back.html?print=on

Game Wizard Reports Administrator Help About

NMT POWER SOLUTIONS!

Search by [Player] Search content [] Ascending [v] Search

Reports

Games List

GAME	Game Date	TEAM	Time	EVENT	COMMENTS
1222002	12-02-2002	Boston Celtics	00:00:18	Fan	Fan, The fans cheer for their team...
1222002	12-02-2002	New York Knicks	00:00:51	Fan	Fan, New York Fans are Chering!!!
1222002	12-02-2002	New York Knicks	00:01:50	Dunk	Highest Dunk !!! 1294567890
1222002	12-02-2002	Boston Celtics	00:02:24	Free Throw	Buzzer Beat, Buzzer Beater (on\$%&^&*%)
1222002	12-02-2002	New York Knicks	00:02:46		3-points shot@#*##@%
1222002	12-02-2002	Boston Celtics	00:03:17		back-door, back door 123544879
1222002	12-02-2002	New York Knicks	00:03:40		ooooooooo, alley..... oop+++++++ ++++++
1222002	12-02-2002	Boston Celtics	00:04:10		missed shot..... triangle offense.....
1222002	12-02-2002	New York Knicks	00:04:28	Fast Break	Coach, coach cheernus as well....
1222002	12-02-2002	New York Knicks	00:04:43	Tip-in	pasage
1222002	12-02-2002	Boston Celtics	00:05:09	Assist	We Assist, We Assist, W/A
1222002	12-02-2002	New York Knicks	00:05:29	Turn Over	Turn Over!123223.....
1222002	12-02-2002	Boston Celtics	00:05:43	Pers Foul	Bl-oper, Personal Foulll
1222002	12-02-2002	New York Knicks	00:06:02	Blocked Shot	whm Shot is Blocked! @#@@
1222002	12-02-2002	New York Knicks	00:09:51	Seal	Bench, Buzzer Beater, Emma Seals

SPORTS - Microsoft Internet Explorer
http://nmt8100/back.html?print=on

Fig. 34

T00260'80090860

☒ NMT POWER SOLUTIONS!

GAME WIZARD REPORTS ADMINISTRATOR HELP ABOUT

Search by Search content Ascending

Reports

Log Report

Date of Game :12-02-2002
 Game#:1222002

	H_EVENTS	H_PTS	Time	V_PTS	A_EVENTS	New York Knicks	COMMENTS	canl	eat	Pubk	Green	A	C	B
Boston Celtics	Fan	0	00:00:18	0			Fan, The fans cheer for their team...	0	0	0	0	0	0	0
		0	00:00:51	0	Fan		Fan, New York Fans are Cheering!!!	1	2	3	4	5	6	7
		0	00:01:50	2	Dunk	Chris Childs	Highlight Dunk!!! 1234567890	0	0	0	0	0	0	0
Tony Battle	Free Throw	1	00:02:24	2			Buzzer Beater, Buzzer Beater! @#%&*^()	0	0	0	0	0	0	0
		1	00:02:46			Larry Johnson	3-points shot! @#%&*^()	0	0	0	0	0	0	0
Mark Blount			00:03:17	2			back-door, back door 123546879	0	0	0	0	0	0	0
		1	00:03:40			Chris Dudley	ooooooooo, alley.....	0	0	0	0	0	0	0
		1	00:04:10			Alan Houston	oop.....	0	0	0	0	0	0	0
							missed shot.....triangle offense.....	0	0	0	0	0	0	0
Randy Brown	Fast Break	3	00:04:28	2			Coach, coach cheering as well....	0	0	0	0	0	0	0
		3	00:04:43	4	Tip-in	Marcus Candy	gagagaga	0	2	3	4	5	6	7
John	Assist	2	00:05:00	4			WT, Assist WT, Assist WT	1	2	2	0	0	0	0

Fig.35

100260*80090860

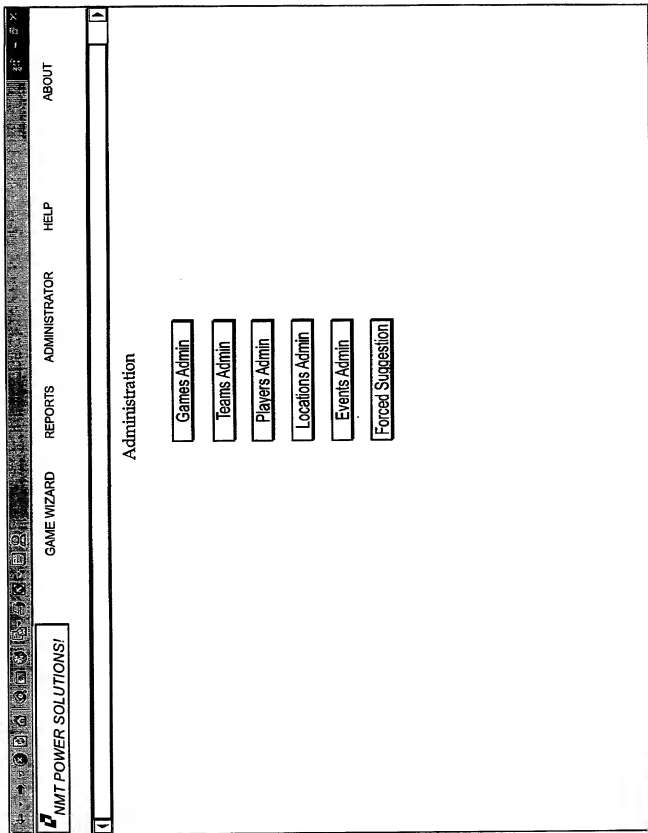


Fig.36

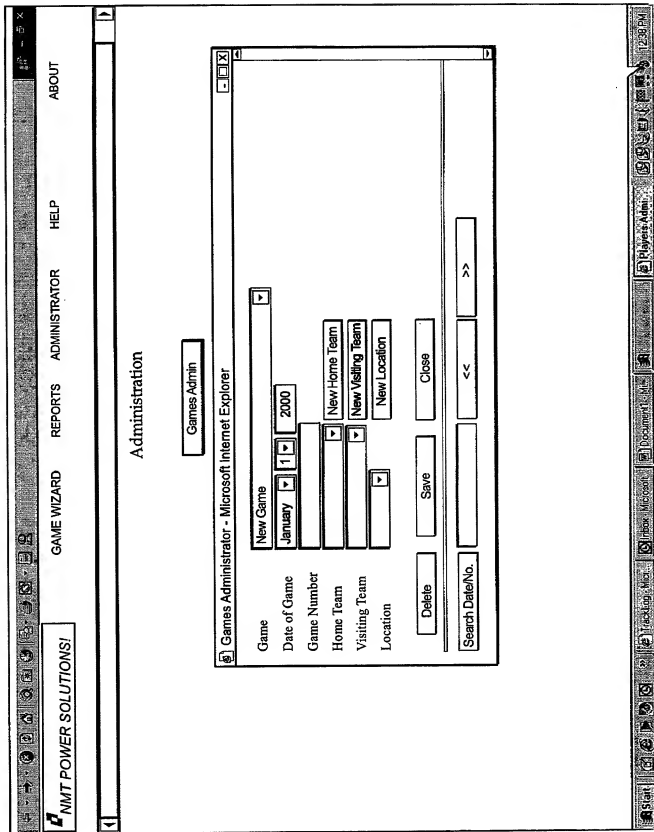


Fig.37

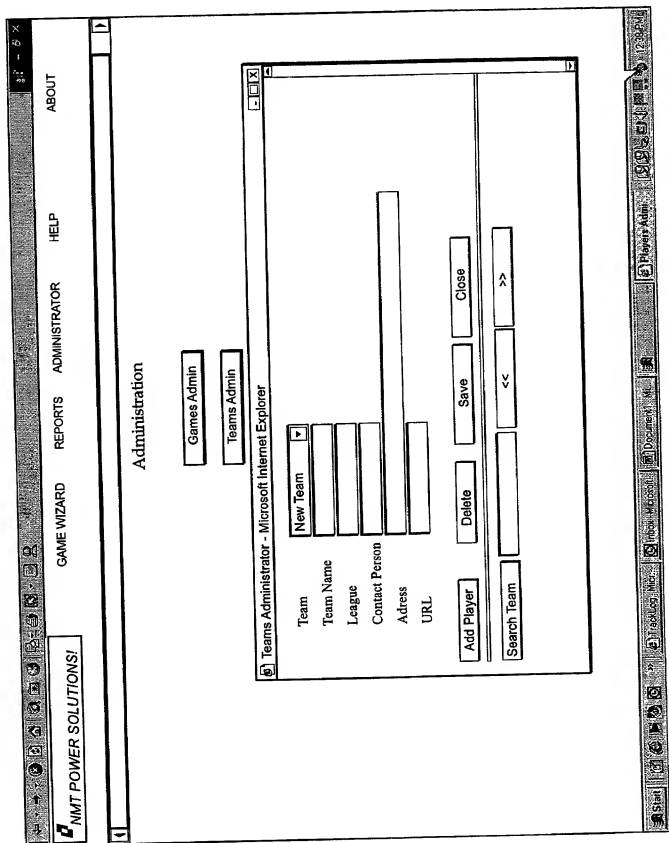


Fig.38

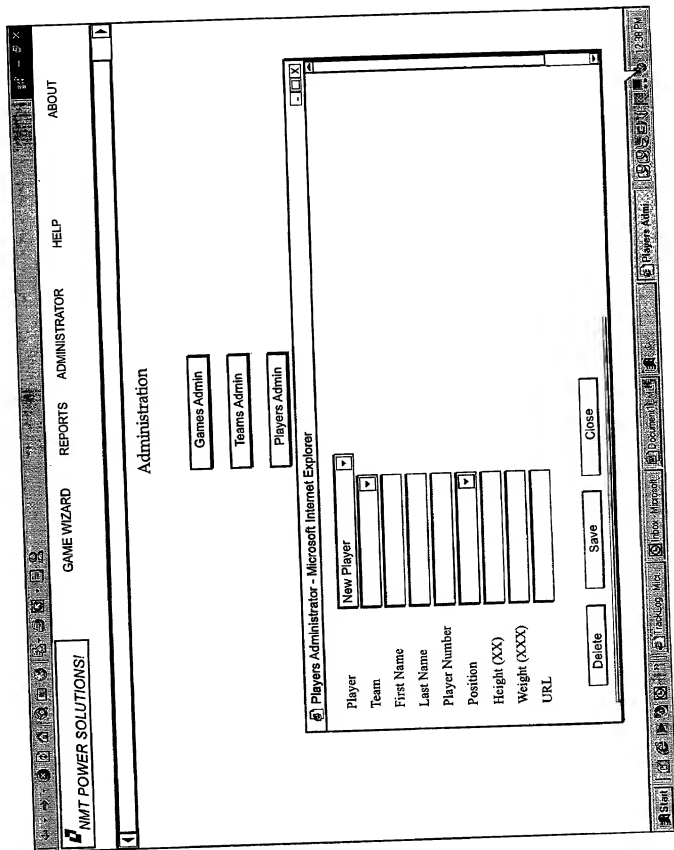


Fig.39

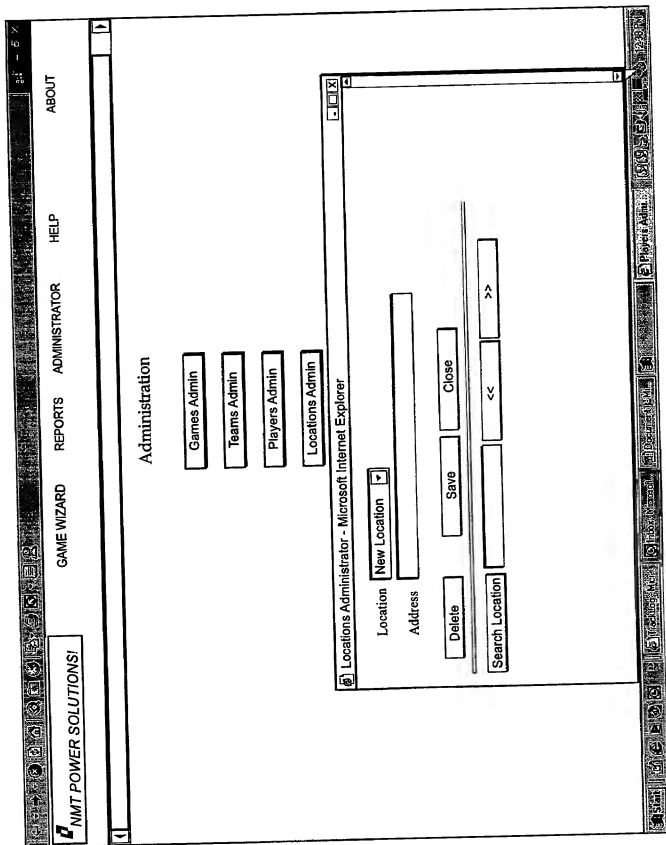


Fig.40

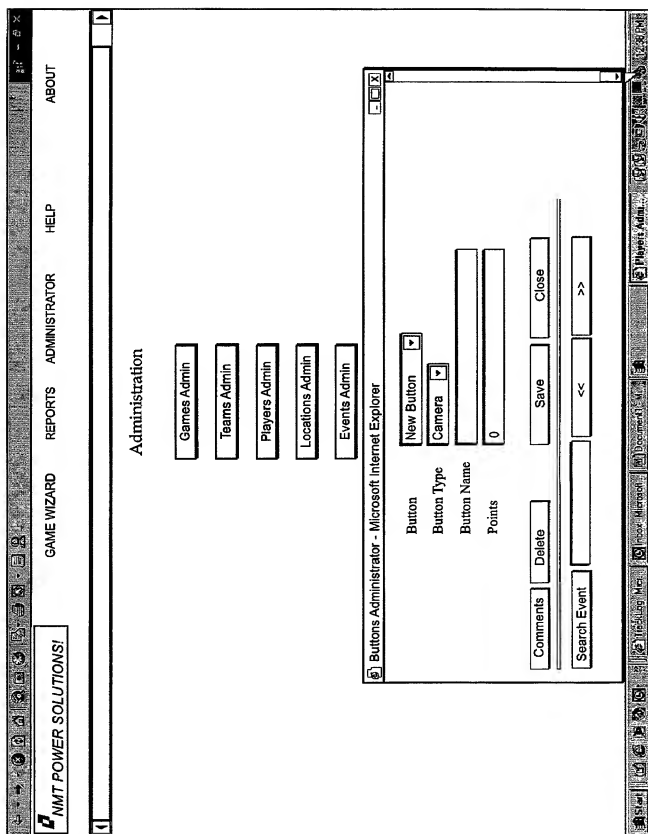


Fig.41

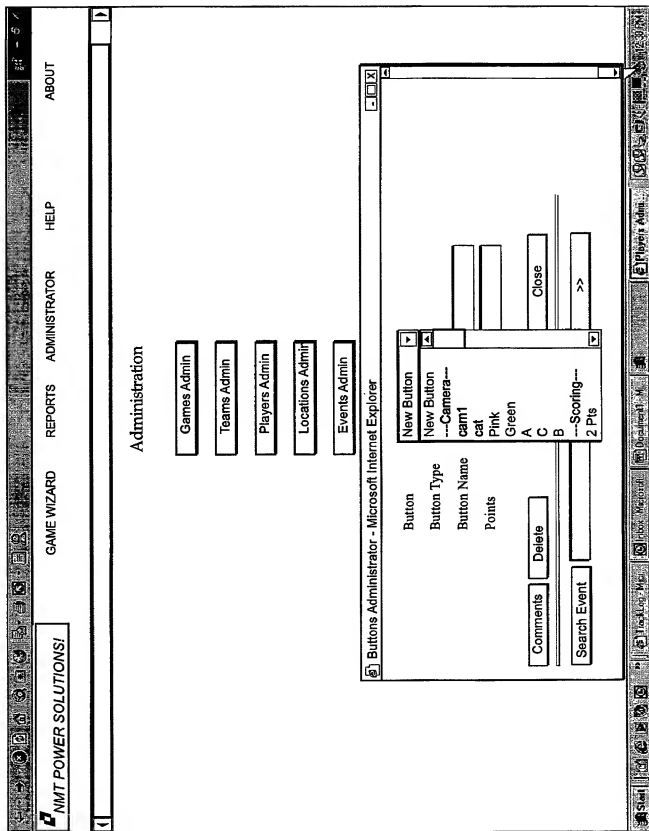


Fig.42

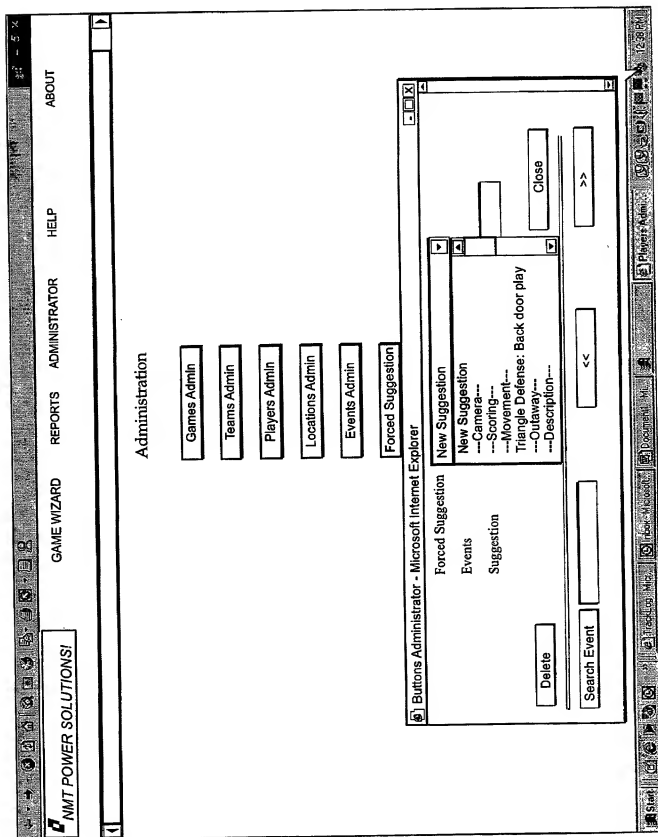


Fig.43

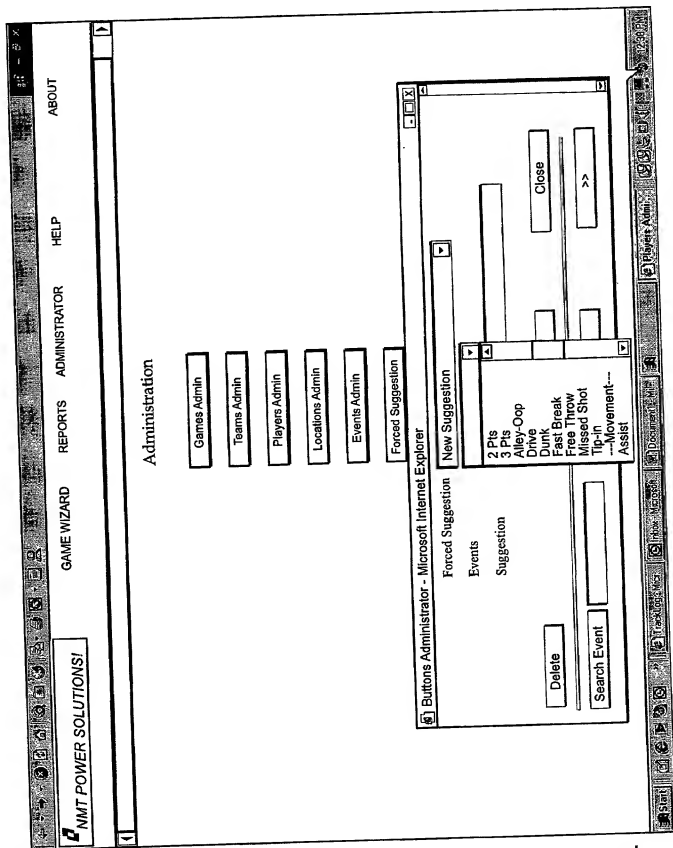


Fig.44

NIMT POWER SOLUTIONS!		GAME WIZARD	REPORTS	ADMINISTRATOR	HELP	ABOUT
NEW JERSEY DEVILS vs. DALLAS STARS						
Home Team: NEW JERSEY DEVILS						
DEVILS TAKE THE ICE	FIGHT DEVELOPS	HARD CHECK & PUNCH				
SHOT ON GOAL	HARD CHECK	FACE OFF & BREAKAWAY				
SHOT ON GOAL 2	SHOT ON GOAL 3	SHOT ON GOAL 4				
SHOT ON GOAL 5	SHOT ON GOAL 6	SHOT ON GOAL 7				
SHOT ON GOAL 8	SAVE	SAVE 2				
HARD CHECK 2	FAN - BRODEUR'S WIFE	FAN				
FAN - "LET'S GO DEVILS"	FAN - BRODEUR'S WIFE SCARED	GOALIE: BRODEUR STUNNED				
BREAKAWAY						
Visiting Team: DALLAS STARS						
BENCH	FACE OFF	FACE OFF 2				
SHOT ON GOAL OFFENSE/DEF	SHOT ON GOAL 2	GOALIE VIEW				
SAVE	SHOT ON GOAL 3	SHOT ON GOAL 4				
FACE OFF NIJWENDYK WINS	SCORED GOAL & CELEBRATION	SAVEREPLAY				

Fig.45

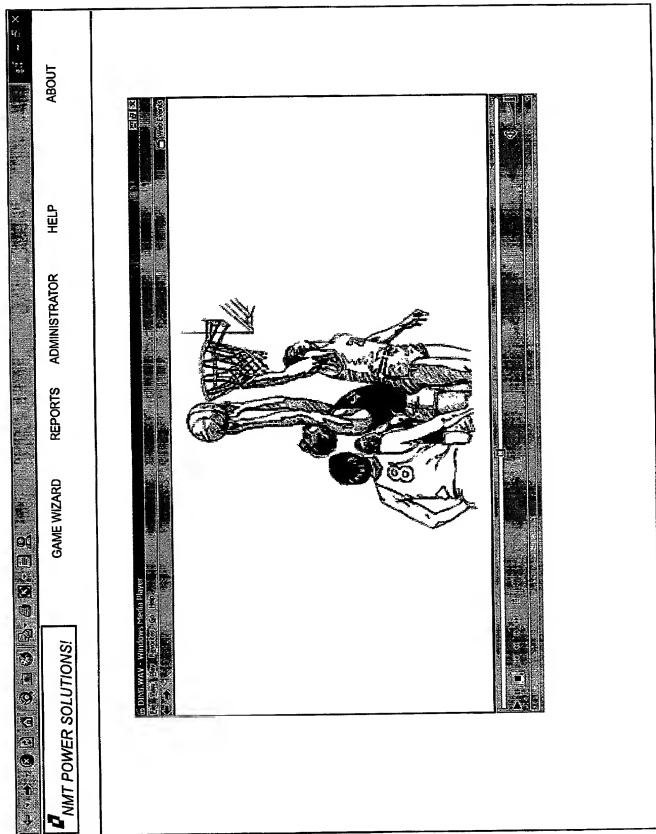


Fig.46